BRUHATH BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Providing Gym equipments at Naraseepura Park in Ward No.9

MEASUREMENT SHEET

RA BILL NO FIRST AND FINAL

	chainage							
Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
1	Earth work in surface excavation in hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.50m. excavated surface levelled and neatly dressed , disposed earth to be levelled after breaking of clods and neatly dressed as per specifications							
		Cum						
	Lake Behind swimming pool		1	11.20	10.20	0.33	37.70	
	Narasipura Lake Park		1	15.70	9.85	0.30	46.39	(11.10+8.60)/2
	For Fixing Gym items		8	0.60	0.60	0.30	0.86	
	For Fixing Gym items		10	0.60	0.60	0.30	1.08	
	Fixing Kerb		2	11.00	0.30	0.20	1.32	
			2	10.00	0.30	0.20	1.20	
			2	15.50	0.30	0.20	1.86	
			1	11.00	0.30	0.20	0.66	
			1	8.50	0.30	0.20	0.51	
					Total Qty		91.59	
							.5	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

Asst. Engineer(Project) 18/2/19

18/2/19

Asst. Executive Engineer (Project)
Project Division
Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
2	Providing and fixing Pre cast solid concrete kerb stones made out of CC1:2:4 and finished with CM 1:3 plastering and finishing curing etc., complete size 450x200x400mm and as per the direction of engineer in charge of work							
		No						
	Lake Behind swimming pool		2	11.00			22.00	
			2	10.00			20.00	
	Narasipura Lake Park		2	15.50			31.00	
			1	11.00			11.00	
			1	8.50			8.50	
							92.50	
			(93.90/.45)				205.56	
					Total Qty		**205.00**	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

Asst. Engineer(Project)

20/3/19

Asst. Executive Engineer (Project)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
3	Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.							
		Sqm				AV		
	Lake Behind swimming pool		2	11.00		0.40	8.80	
			2	10.00		0.40	8.00	
	Narasipura Lake Park		2	15.50		0.40	12.40	
			1	11.00		0.40	4.40	
			1	8.50		0.35	2.98	
					Total Qty		36.58	
4	Painting on Concrete Surface KSRRB M2700-12. Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint at of 1 litre for 2 sqm complete as per specifications MORTH Specification No. 800							
		Sqm				AV		
	Lake Behind swimming pool		2	11.00		0.40	8.80	
			2	10.00		0.40	8.00	
	Narasipura Lake Park		2	15.50		0.40	12.40	
			1	11.00		0.40	4.40	
			1	8.50		0.35	2.98	
					Total Qty		36.58	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

22/3/19
Asst. Engineer(Project)

22/3/19
Asst. Executive Engineer (Project)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
5	Providing and laying in position plain cement concrete of Mix CC 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation including cost of all materials, labour HOM of machinery curing complete as per specification,							
		CUM						
	Lake Behind swimming pool		1	11.00	10.00	0.15	16.50	
	Narasipura Lake Park		1	15.50	9.85	0.15	22.90	(11.10+8.60)/2
	For Fixing Gym items		8	0.60	0.60	0.10	0.29	
	For Fixing Gym items		10	0.60	0.60	0.10	0.36	
						Total Qty	40.05	
						Qty Limited To	39.53	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

Asst. Engineer(Project) 26/2/19

26/2/19
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Asst. Executive Engineer (Project)

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
6	Providing and laying in position plain cement concrete of Mix CC 1:2:4 with OPC cement @ 240 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ .549 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation including cost of all materials, labour HOM of machinery curing complete as per specification,							
		CUM						
	Lake Behind swimming pool		1	11.00	10.00	0.10	11.00	
	Narasipura Lake Park		1	15.50	9.85	0.10	15.27	(11.10+8.60)/2
	For Fixing Gym items		8	0.60	0.60	0.45	1.30	
	For Fixing Gym items		10	0.60	0.60	0.45	1.62	
	Lake Behind swimming pool		2	11.00	0.20	0.10	0.44	
			2	10.00	0.20	0.10	0.40	
	Narasipura Lake Park		2	15.50	0.20	0.10	0.62	
			1	11.10	0.20	0.10	0.22	
			1	8.60	0.20	0.10	0.17	
					Total Qty		31.04	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

Asst. Engineer(Project) 2/3/19

Asst. Executive Engineer (Project) 2/3/19
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
7	Providing and fixing cement base precast, pre-polished cement concrete designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, including cutting, gridding the edge to half/full round wherever required, labour curing complete as per specification.							
		Sqm						
	Lake Behind swimming pool		1	11.00	10.00		110.00	
	Narasipura Lake Park		1	15.50	9.85		152.68	(11.10+8.60)/2
	Deduction		-8	0.60	0.60		-2.88	
			-10	0.60	0.60		-3.60	
					Total Qty		256.20	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

Asst. Engineer(Project) 22/3/19

Asst. Executive Engineer (Project) 22/3/19

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
8	Supply and fixing of Seated Chest Press. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Lake Behind swimming pool		1				1	
	Narasipura Lake Park	checked.	1				1	
					Total Qty		2	
9	Supply and fixing of HD Health Walker. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Lake Behind swimming pool		1				1	
	Narasipura Lake Park	checked.	1				1	
					Total Qty		2	

Assistant Executive Engineer
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Contractor

Asst. Engineer(Project)

22/3/19

Asst. Executive Engineer(Project)
Project Division
Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
10	Supply and fixing of HD Waist Twister. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Lake Behind swimming pool		1				1	
	Narasipura Lake Park		1				1	
					Total Qty		2	
11	Supply and fixing of HD Twist Stepper. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Lake Behind swimming pool		1				1	
	Narasipura Lake Park		1				1	
					Total Qty		2	

Checked

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Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
12	Supply and Fixing of Tai Chi Spinners. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Lake Behind swimming pool		1				1	
	Narasipura Lake Park		1				1	
					Total Qty		2	
13	Supply and fixing of Self Weighted Rower. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Lake Behind swimming pool		1				1	
	Narasipura Lake Park		1				1	
					Total Qty		2	

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22/3/19
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Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
14	Supply and Fixing of HD Sit Up Station. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Lake Behind swimming pool		1				1	
	Narasipura Lake Park		1				1	
					Total Qty		2	
15	Supply and Fixing of Arm & Pedal Bike. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Lake Behind swimming pool		1				1	
	Narasipura Lake Park		1				1	
					Total Qty		2	

Assistant Executive Engineer
Byatarayanapura Sub-Division
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22/3/19
Asst. Engineer(Project)

22/3/19
Asst. Executive Engineer (Project)
Project Division
Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
16	Supply and Fixing of HD Mini Ski. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Narasipura Lake Park		1				1	
						Total Qty	1	
17	Supply and fixing of Elliptical Cross Trainer. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules.							
		No						
	Narasipura Lake Park		1				1	
						Total Qty	1	

Assistant Executive Engineer
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KRIDL, BBMP, Bangalore

Contractor

Asst. Engineer(Project) 22/3/19

22/3/19
Asst. Executive Engineer (Project)
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
18	Providing and fixing Polished Grey Granite Slab Benches as per designs, drawing specification and direction of Engineer in charge of works							
		No						
			7				7	
					Total Qty		7	
19	Lead for earthwork and disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading for earthwork (upto 10 kms) complete with all lead & lift & as per the direction of the Engineer in charges.							
		Cum						
	Qty same as Item No.1						91.59	
					Total Qty		91.59	
20	Providing and fixing dust bins as per designs, drawing specification and direction of Engineer in charge of works							
		No						
			1x2				2	
					Total Qty		2	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

Asst. Engineer(Project)

22/03/19

Asst. Executive Engineer (Project)

22/3/19

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore